

AMENDMENTS TO THE SPECIFICATION:

Please add Abstract of Disclosure as follows:

ABSTRACT OF DISLCOSURE

The invention relates to a sensor arrangement comprising a radiation-conducting substrate, said arrangement having a plurality of sensor fields and separating regions for separating the individual sensor fields from the respectively adjacent sensor fields. Said separating regions are formed by a separating agent layer that causes a reflectivity lower than 0.5 for radiation from the substrate on the interface between the separating agent layer and the substrate, at least in a first region adjacent to the interface between the separating agent layer and the substrate, and an extinction higher than 0.95 at least in a second region located above the first region, on the side opposing the substrate.